

**DEVELOPING MODULE FOR MEASUREMENT COURSE TO IMPROVE
THE X GRADE STUDENTS' LEARNING ACHIEVEMENT OF SMK N 2
DEPOK, SLEMAN**

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ABSTRACT

The purpose of this research is to develop module for direct measurement course, to figure out the module appropriateness for subject direct measurement, and to figure out the effect of the implementation of the module for subject direct measurement to the learning achievements of grade X students of machine engineering department of SMK N 2 Depok, Sleman.

This research is categorized as Research and Development research by descriptive-quantitative analysis. The steps of the developing module for subject the use of direct linier measurement tools is started from observing the research objects, planning the module development, developing module, holding preliminary field testing (involving 10 students), revising first draft, holding main field testing (involving 53 students and 1 teacher), revising second draft, implementing module (32 students were using the module in their class), and revising the final draft. The final module is then evaluated in materials and media by 3 experts. The scoring of the evaluation result of materials, media, pre-test, post-test, students' responses on preliminary field testing and main field testing and teacher's responses on the module development, and students' responses on the process of using the module, are calculated through Likert Scale. Meanwhile, the use of the module in learning activities is analysed by using t-test. This analysis is aimed at knowing the difference of the average score of the improvement of students' achievement in class X-A by using lecturing method and in class X-B by using the module in SMKN 2 Depok, Sleman.

The result of this research is a process of developing module for subject the use of direct linier measurement tools which is started with preliminary study, module development, and test of the module effectiveness. The module which has been totally developed is then categorised as a good one and can be used in subject direct linear measurement, especially for both teacher and students. The module which has been considered as a good one is then implemented to the students. The result after the implementation is the improvement in students' achievements on subject direct measurement, especially on sub-chapter micrometer. The average score of the post-test in class X-A (which uses module) is 83.37. Meanwhile, the average score of the post-test in class X-B (which uses lecturing method) is 79.03. The difference between those two classes shows that there is an improvement in class X-B compared to class X-A (**class X-B > class X-A**).

Keywords: media development, module implementation, students' achievements,
subject measurement